

CLAIMS

I claim:

1. A combination table-miter saw and assembly characterized and comprised of:

(a) A power tool or saw including a main saw unit (18), a saw blade (20), a handle grip with a motor switch control assembly (19), a motor (21), and a saw unit slide bar (16), thus enabling the tool to be operated as a table saw, fixed miter saw or sliding miter saw.

(b) A safety mechanism for the power tool or saw, comprising a locking knob assembly (11) for the slide bar (16) on the arm support (3), a stay-down blade lock knob (12), and a switch control for table saw (13), and wherein unless these three elements of the safety mechanism (locking knob assembly (11), stay down lock knob (12), and safety switch control (13)) are locked or activated, user may not operate the tool as a table saw.

(c) An arm support (3) of a shape that permits a work piece to pass through without being obstructed, attached to the rotatable worktable and that connects the saw unit (18) to a side of the worktable, including a knob handle tilt control (10) and an angle tilt scale (15).

(d) The rotatable work table comprised of a table saw platform (1a) and a miter saw platform (1b), having these platforms the same or different shapes, having the table saw platform (1a) a platform table insert (22), a rail guide slot ramp (7), a scale marking (8), and a locking handle assembly (17).

(e) An undercarriage that will be secured to the worktable but that will enable the platforms to rotate and that includes a miter saw fixed fence base (14) and four adjustable and removable non-slip foot bases (9) attached to each corner of the undercarriage.

(f) A stationary but removable fence (2), including a rail guide clamp handle (5), rail guide bar (6) and two clamp bolt knobs (4).

2. A combination table-miter saw and assembly characterized and comprised of:

(a) A power tool or saw including a main saw unit (18), a saw blade (20), a handle grip with a motor switch control assembly (19) for using the miter saw, a motor (21), and a saw unit slide bar (16), thus enabling the tool to be operated as a table saw, fixed miter saw or sliding miter saw.

(b) A safety mechanism for the power tool or saw, comprising a locking knob assembly (11) for securing the slide bar (16) on the arm support (3) and therefore secure the saw unit (18) in place, a stay-down blade lock knob (12) to secure the saw blade (20) to a downward position, and a switch control for table saw (13), and wherein unless these three elements of the safety mechanism (locking knob assembly (11), stay down lock knob (12),

and safety switch control (13)) are locked or activated, user may not operate the tool as a table saw.

(c) An arm support (3) of a shape that permits a work piece to pass through without being obstructed, attached to the rotatable worktable and that connects the saw unit (18) to a side of the worktable, including a knob handle tilt control (10) that when loosened may determine the angle of the saw blade (20) and an angle tilt scale (15) that will indicate the chosen angle.

(d) The rotatable work table comprised of a table saw platform (1a) and a miter saw platform (1b) that may be of the same or of different shapes, having the table saw platform (1a) a platform table insert (22) where the saw blade (20) will perform cutting, a rail guide slot ramp (7) for placing the fence (2) when the invention is used as a table saw, a scale marking (8) to guide the fence (2), and a locking handle assembly (17) to turn the platform to a desired angle.

(e) An undercarriage that will be secured to the worktable but that will enable the platforms to rotate and that includes a miter saw fixed fence base (14) for placing the fence (2) for operation of the invention under miter saw mode, and four adjustable and removable non-slip foot bases (9) attached to each corner of the undercarriage.

(f) A stationary but removable fence (2) for use with the miter saw and as a rail guide table saw conversion, including a rail guide clamp handle (5) to be inserted with the rail guide bar (6) into the rail guide slot ramp (7) for securing the fence (2) to the worktable for table saw operation, and two clamp bolt knobs (4) that secure the fence (2) to the worktable.

3. The tool described in Claim 1 wherein the arm support (3) is of shapes such as but not limited to "C" or "L", wherein the miter saw platform (1b) is of a radial shape, and wherein the scale marking (8) illustrates inches or centimeters.

4. The tool described in Claim 2 wherein the arm support (3) is of shapes such as but not limited to "C" or "L", wherein the miter saw platform (1b) is of a radial shape, and wherein the scale marking (8) illustrates inches or centimeters.

5. The tool described in Claim 1 wherein its elements are made of materials such as but not limited to metals, carbide, plastic, rubber or man made materials.

6. The tool described in Claim 2 wherein its elements are made of materials such as but not limited to metals, carbide, plastic, rubber or man made materials.
7. The tool described in Claim 3 wherein its elements are made of materials such as but not limited to metals, carbide, plastic, rubber or man made materials.
8. The tool described in Claim 4 wherein its elements are made of materials such as but not limited to metals, carbide, plastic, rubber or man made materials.
9. The tool described in Claim 1 wherein any of the main saw unit (18), saw blade (20), handle grip with a motor switch control assembly (19), motor (21), and/or saw unit slide bar (16) may be removable, making the other elements of the tool compatible to be used with other saws or elements in the prior art and in the market, and wherein the sole removal of the saw unit slide bar (16) allows the tool or saw to be used as a table saw or fixed miter saw.
10. The tool described in Claim 2 wherein any of the main saw unit (18), saw blade (20), handle grip with a motor switch control assembly (19), motor (21), and/or saw unit slide bar (16) may be removable, making the other elements of the tool compatible to be used with other saws or elements in the prior art and in the market, and wherein the sole removal of the saw unit slide bar (16) allows the tool or saw to be used as a table saw or fixed miter saw.
11. The tool described in Claim 5 wherein any of the main saw unit (18), saw blade (20), handle grip with a motor switch control assembly (19), motor (21), and/or saw unit slide bar (16) may be removable, making the other elements of the tool compatible to be used with other saws or elements in the prior art and in the market, and wherein the sole removal of the saw unit slide bar (16) allows the tool or saw to be used as a table saw or fixed miter saw.
12. The tool described in Claim 6 wherein any of the main saw unit (18), saw blade (20), handle grip with a motor switch control assembly (19), motor (21), and/or saw unit slide bar (16) may be removable, making the other elements of the tool compatible to be used with other saws or elements in the prior art and in the market, and wherein the sole removal of

the saw unit slide bar (16) allows the tool or saw to be used as a table saw or fixed miter saw.

13. The tool described in Claim 1 wherein the elements are small, of lightweight materials, and thus is portable.

14. The tool described in Claim 2 wherein the elements are small, of lightweight materials, and thus is portable.

15. The tool described in Claim 9 wherein the elements are small, of lightweight materials, and thus is portable.

16. The tool described in Claim 10 wherein the elements are small, of lightweight materials, and thus is portable.